DEPARTMENT OF THE NAVY

OFFICE OF THE CHIEF OF NAVAL OPERATIONS

WASHINGTON, D.C. 20350

IN REPLY REFER TO

OPNAVINST 2010.4
Op-941C

AUG 24 1978

OPNAV INSTRUCTION 2010.4

From: Chief of Naval Operations

Subj: Naval Telecommunications System (NTS) Software Control
        and Management Policy

Ref: (a) OPNAVINST 5231.1
        (b) SECNAVINST 5231.1

1. _Purpose._ To establish policy and assign responsi-
bilities for the control and management of Automated Data
Processing Equipment (ADPE) software used in the Naval Tele-
communications System, and for interface software employed
in automated data processing systems which impact the NTS.

2. _Objectives._ The primary objectives of this instruction
are:

   a. To ensure that automated Naval Telecommunications
System software is developed, managed, and controlled so as
to provide cohesive, economical, and responsive telecom-
munications support to the operating forces of the Depart-
ment of the Navy.

   b. To ensure potential mutual impacts of Navy ADP
systems and Naval telecommunications systems on each other
are identified, and included in design, development and
implementation planning.

   c. To ensure that automated Naval Telecommunications
System planning is consistent with OSD and Navy policy.

3. _Definitions_

   a. _Naval Telecommunications System._ The NTS as defined
in NWP-4 is a complex of terminal, transmission, switching,
cryptographic and control devices that collectively provide
the electrical and optical communications capability for the
exercise of command and control of the Naval operating
forces, and for the transmission of operational information
to and between units of such forces, shore establishments
and other components of the Navy.

b. <u>Software Control</u>. The authority to approve or disapprove changes to the software of an existing primary system, and to the software of interfacing systems to the extent such software may degrade or otherwise interfere with the operation of the primary system. For the purpose of this directive, the Naval Telecommunications System is the "primary" system.

c. <u>Software Management</u>. The authority and responsibility for planning, programming, budgeting, analyzing and certifying prior to operational use, and for providing life-cycle maintenance support of automated system software.

4. <u>Applicability</u>. This instruction is applicable throughout the Department of the Navy with particular applicability to ADP and telecommunications program sponsors, telecommunications system development activities, operational users involved with or requiring telecommunications or ADP software development, and those activities involved in the software enhancement and general software maintenance of automated systems impacting or supporting the NTS. Software control and management of telecommunications systems or subsystems not identified as part of the NTS will be determined by CNO on a case-by-case basis. This instruction is not intended to abrogate the policies/assignments and ADP procedures described in references (a) and (b) or other instructions which may apply.

5. <u>Background</u>. This instruction is motivated by a combination of the following:

a. Rapid growth and independent development of both ADP and telecommunications systems.

b. A growing interdependency between and among both ADP and telecommunications systems.

c. The need for telecommunications interoperability throughout the Department of Defense.

d. The growth of software maintenance costs and the frequent impacts of software development decisions on software programs of other systems which can require costly corrective action.

6. <u>Policy</u>

    a. <u>Software control of automated Naval telecommunications systems.</u> All automated systems/sub-systems employed or planned for use within the NTS (and other Naval telecommunications systems as designated by CNO) shall adhere to and insure compatibility with established telecommunications standards and procedures, and interoperability with existing baseline systems.

    b. <u>Software control of that part of systems which interface with or otherwise impact NTS automated telecommunications systems.</u> Approval of each automated system/sub-system which will interface with or will otherwise impact automated Naval telecommunications system(s) shall be granted only after supporting documentation concerning projected interface with, and impact on, the NTS has been reviewed by Commander, Naval Telecommunications Command (COMNAVTELCOM) for the following:

        (1) Compliance with established Navy and OSD telecommunications policy.

        (2) Impact on existing or planned Naval Telecommunications System and supporting software.

        (3) Possible satisfaction of requirement through use of existing Naval telecommunications systems not previously considered in planning.

        (4) Possible satisfaction of requirement through use of Defense Communication System (DCS) switched networks rather than special purpose (dedicated) systems.

        (5) Adequacy of proposed life-cycle system software maintenance to ensure continued compliance with telecommunications doctrine and operating procedures, including assurance of COMNAVTELCOM involvement in decisions to make software interface changes which impact the NTS.

        (6) If changes to the interface are required after an Interface Design Specification (IDS) has been agreed upon and after development funds have been committed, changes affecting the interface shall be subject to joint configuration control before implementation. CNO will resolve any

difficulties arising from COMNAVTELCOM review of those auto-mated systems not part of the NTS but which interface or impact on the NTS.

7. Authority and Responsibility

a. Software control. COMNAVTELCOM will exercise soft-ware control of all automated systems/sub-systems employed or planned for use in the NTS, and for such other automated telecommunications systems as may be designated by CNO.

b. Software Management

(1) COMNAVTELCOM is responsible for the management of software installed or planned for installation in systems/sub-systems employed in the NTS ashore, and such other automated telecommunications systems as may be desig-nated by CNO.
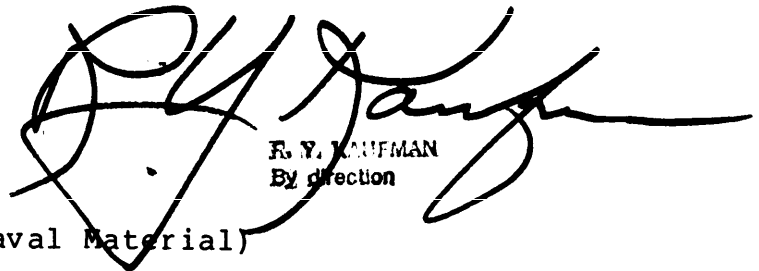
(2) Software management of all systems which inter-face with or otherwise impact on automated portions of the NTS shall include provision for COMNAVTELCOM certification and approval of the interface software prior to implementa-tion.

c. Life Cycle Support

(1) For those automated systems not integral to but requiring interface with the NTS or other Naval telecom-munications systems as designated by CNO, it is the responsibility of the program sponsor to ensure adherence to the policy outlined in paragraph 6., with specific attention to ensure that life-cycle software funding support is programmed and a responsible activity designated to pro-vide life-cycle software maintenance.

(2) For automated telecommunications systems developed by the Chief of Naval Material (CNM), CNM is responsible for ensuring adherence to the policy outlined in paragraph 6., with specific responsibility to ensure that life-cycle software funding requirements are identified to the program sponsor and that a responsible activity is designated to provide life-cycle software maintenance prior to operational evaluation (OPEVAL).

8. Effective Date and Implementation. This instruction is
effective upon receipt.

R. Y. KAUFMAN
By direction

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